

Amendments to the Specification:

Please replace paragraph starting with line 12 on page 9 with the following paragraph:

A number of materials and methods can be used to fabricate such fenestrated arrays of the invention. The substrates that could be used for fabricating the arrays include, but are not limited to, glass and plastics, such as polystyrene and polycarbonate. If glass is used as the substrate, the fenestrations in the substrate can be produced by using a glass etchant, such as Hydrofluoric Acid (HF). Alternatively, the fenestrations can be produced by laser etching of glass. Fenestrations in plastic substrates can be similarly produced using machining and etching. Both glass and plastic substrates can also be produced by molding. In addition, the array of the invention can be fabricated by first spotting a planar substrate with array elements, and thereafter areas of the substrate in between the spots can be removed, for example by a method described above. The size of the substrate used to create the arrays can be between 5 to 100 millimeters wide and 5 to 100 millimeters long, preferably being 25 millimeters wide and 76 millimeters long, the later being the size of glass slides commonly used for histochemical studies and for conventional DNA array fabrication. The thickness of the substrate can be between 1 microns and 2 millimeters, preferably less than 0.5 mm, still more preferably between 20 microns and less than 100 microns.

Please replace paragraph starting with line 6 on page 10 with the following paragraph:

In a preferred embodiment, the substrate will have more than one fenestration, a more preferable embodiment will have ~~between 10 and~~ less than 100 fenestrations. In still another preferred

embodiment, the substrate will have more than 100 fenestrations. The smallest dimension of each of the holes is larger than the size of the molecules expected to pass through the holes, typical size being larger than 100 nanometers, more preferably being larger than 1 micrometer. The holes can be of any shape with preferred shape being rectangular with the length much larger than the width, with the width being one of the ~~smallest~~ smaller dimensions mentioned above.